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SUBJECT: Complete List of USDA-DHIA Bull Evaluations (February 1997)

TO: Sire Analysts, Artificial-Insemination Organizations
Executive Secretaries, Breed Associations

FROM: H.D. Norman, Research Leader, AIPL H. Duane Norman

The February 1997 USDA-DHIA complete list of bull evaluations on 48X-reduction microfiche is enclosed for bulls with 10 or more daughters. The list includes evaluations for all artificial-insemination (AI) bulls designated active in July 1996, all AI bulls born February 1, 1982, or later, and all non-AI bulls born January 1, 1989, or later. Note that productive life (PL) and somatic cell score (SCS) evaluations are included and that all predicted transmitting abilities (PTA's) are expressed relative to 1995 genetic bases.

The bull evaluations are now available through the Animal Improvement Programs Laboratory (AIPL) home page **(http://aipl.arsusda.gov)**. Beginning with the release of genetic evaluations in August 1997, these evaluations no longer will be provided on microfiche.

Economic values assigned to PTA's in the milk and fat dollars index (MF$) and in the milk, fat, and protein dollars index (MFP$) were based on a milk price of $12.30 per hundredweight of milk with 3.5-percent fat and 3.2-percent protein and differentials of 8.0 cents for fat and 20.0 cents for protein. These values are a prediction of price relationships that will apply when cows from this year's matings are being milked. They are not expected to change until the base change in 2000. Thus,

MF$ = $.095 (PTA milk) + $.80 (PTA fat)

MFP$ = $.031 (PTA milk) + $.80 (PTA fat) + $2.00 (PTA protein)

The cheese yield economic dollar index (CY$) is calculated for Ayrshires, Brown Swiss, Holsteins, Milking Shorthorns, and Red and Whites by

CY$ = $.002218 (PTA milk) + $1.9960 (PTA fat) + $1.7299 (PTA protein)

and for Guernseys and Jerseys by

CY$ = $.002218 (PTA milk) + $.80 (PTA fat) + $3.1876 (PTA protein)

The PTA's for component percentages were calculated with breed averages for cows born in 1990.

The net merit dollars index (NM$) is based on MFP$ discounted for feed cost as well as PTA's for PL and SCS:

NM$ = .7 (MFP$) + $11.30 (PTA PL) – $28.22 (PTA SCS – breed average SCS)

Average first-lactation SCS for cows born in 1990 were:

Ayrshire	3.15	Holstein	3.20
Brown Swiss	3.22	Jersey	3.30
Guernsey	3.35	Milking Shorthorn	2.88

Enclosure